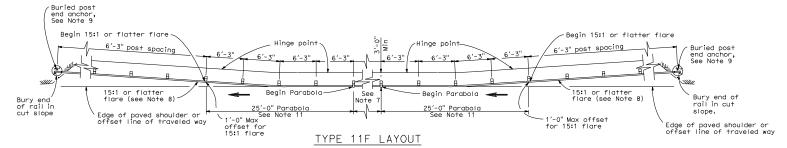
DIST COUNTY ROUTE POST MILES SHEET TOTAL NO. SHEETS

REGISTERED CIVIL ENGINEER

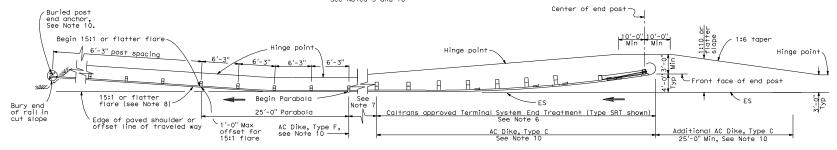
MGy 1, 2006

PLANS APPROVAL DATE

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(EMBANKMENT GUARD RAILING INSTALLATION WITH A BURIED END ANCHOR TREATMENT AT EACH END OF RAILING) See Notes 5 and 10



## TYPE 11G LAYOUT

(EMBANKMENT GUARD RAILING INSTALLATION WITH FLARED END TREATMENT AND A BURIED END ANCHOR TREATMENT AT THE ENDS OF RAILING) See Notes 5 and 10

## NOTES:

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- 1. Line post, blocks and hardware to be used are shown on Standard Plans A77A1, A77A2, A77B1, A77C1 and A77C2.
- Guard rail post spacing to be 6'-3" center to center, except as otherwise noted.
- 3. Except as noted, line posts are 6" x 8" x 6'-0" wood with 6" x 8" x 1'-2" wood blocks. W6 x 9 steel posts, 6'-0" in length, with 6" x 8" x 1'-2" notched wood blocks or plastic blocks may be used for 6" x 8" x 6'-0" wood post with 6" x 8" x 1'-2" wood blocks where applicable and when specified.
- 4. Direction of adjacent traffic indicated by -.
- 5. Layout Types 11D through 11L, shown on the A77E Series of Standard Plans, are typically used where guard railing is recommended to shield embankment slopes and a crashworthy end treatment is required for both directions of traffic.

- 6. The type of terminal system end treatment to be used will be shown on the Project Plans.
- Dependent on site conditions (embankment height and side slope), construction
  of additional guard railing (length equal to multiples of 12'-6" with 6'-3" post
  specing) may be advisable.
- 8. The 15:1 or flatter flare used with buried end anchors is based on the edge of the paved shoulder or offset line of edge of the traveled way. The length of guard railing within the 15:1 or flatter flare is based on site conditions and should be a length equal to multiples of 12'-6".
- 9. For details of the buried post end anchor used with Type 11F and 11G Layouts, see Standard Plan A7712.
- 10. Where placement of dike is required with guard railing installations, see Standard Plan A77C4 for dike positioning details.
- 11. For typical flare offsets for  $25^{\prime}-0^{\prime\prime}$  length parabola with maximum offset of  $1^{\prime}-0^{\prime\prime}$ , see Standard Plan A77E1.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

## METAL BEAM GUARD RAILING TYPICAL LAYOUTS FOR EMBANKMENTS

NO SCALE

A77E3